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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

12/08/2008

Fleit Gibbons Gutman Bongini & Bianco PL 21355 EAST DIXIE HIGHWAY SUITE 115 MIAMI, FL 33180 EXAMINER

STOICA, ELLY GERALD

ART UNIT PAPER NUMBER

1647

DATE MAILED: 12/08/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,639	07/24/2006	Dina Ben-Yehuda	7640-X05-046	5095

TITLE OF INVENTION: LIVIN-DERIVED PEPTIDES, COMPOSITIONS AND USES THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance onerwise in Block 1, by (rders and notification of n a) specifying a new corres	naintenance fees v pondence address;	vill be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
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MIAMI, FL 331	.80						(Depositor's name)
							(Signature)
							(Date)
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10/559,639	07/24/2006	-	Dina Ben-Yehuda		7	7640-X05-046	5095
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/09/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
STOICA, ELI	LY GERALD	1647	530-300000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 2 registered patent attorneys or agents. If no name is listed, no name will be printed.							
3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)							
Please check the appropr	riate assignee category or	categories (will not be pa	rinted on the patent): \Box	Individual 🖵 Co	orporati	on or other private gro	up entity 🚨 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			bb. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	`	· · · · · · · · · · · · · · · · · · ·	П				
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Authorized Signature				Date			
Typed or printed name				Registration No.			
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21355 EAST DIXIE HIGHWAY			ART UNIT	PAPER NUMBER	
SUITE 115 MIAMI, FL 33180	n		1647		
MIIAMII, FL 3318	U		DATE MAILED: 12/08/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/559,639	BEN-YEHUDA ET AL.				
Notice of Allowability	Examiner	Art Unit				
	ELLY-GERALD STOICA	1647				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS				
1. This communication is responsive to 11/25/2008 and 11/26	<u>5/2008</u> .					
2. \boxtimes The allowed claim(s) is/are <u>28-32 and 42-45</u> .						
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). Certified copies not received: 	been received. been received in Application No					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) hereto or 2) to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)	5 					
1. Notice of References Cited (PTO-892)	5. Notice of Informal Pa					
 Notice of Draftperson's Patent Drawing Review (PTO-948) MInformation Disclosure Statements (PTO/SB/08), 	6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendn	e				
Paper No./Mail Date <u>08/28/2008</u> 4. Examiner's Comment Regarding Requirement for Deposit	_	nt of Reasons for Allowance				
of Biological Material	<u>—</u>	THE OF INCASONS IOF AHOWATICE				
	9.					

Application/Control Number: 10/559,639 Page 2

Art Unit: 1647

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

that Lorraine Spector and the examiner had with Applicants' representatives, Paul D.

Bianco and Katharine Davis Wong, on November 25, 2008. In the interview, Applicant

agreed to cancel claim 27 and further to amend some of the claims so as to put them in

an allowable condition. Applicant offered to submit a Microsoft Office document

containing the agreed upon set of claims which was received by the Examiner on

11/26/2008. The application has been amended as follows:

In the claims all previous sets of claims are to be replaced by the following set:

1-27. (Cancelled)

28. (Previously Presented) An isolated or synthetic livin-derived peptide selected

from one of p30-Livin α and p28-Livin β, wherein said p30-Livin α peptide comprises the

sequence as defined in SEQ ID NO:1 having pro-apoptotic activity, and wherein said

p28-Livin β peptide comprises the sequence as defined in SEQ ID NO:2 having pro-

apoptotic activity.

29. (Previously Presented) An isolated or synthetic peptide as defined in claim 28,

wherein said p30-Livin α is denoted by the amino acid sequence as defined in SEQ ID

NO:1 and said p28-Livin β is denoted by the amino acid sequence as defined in SEQ ID

NO:2.

Application/Control Number: 10/559,639 Page 3

Art Unit: 1647

30. (Currently Amended) A pharmaceutical composition comprising as active ingredient at least one peptide as defined in claim 28 and a pharmaceutically-

acceptable carrier.

31. (Currently Amended) A pharmaceutical composition as defined in claim 30, for

inducing and/or enhancing apoptosis.

32. (Currently Amended) A pharmaceutical composition as defined in claim 31,

wherein said apoptosis is induced by a treatment or agent selected from the group

consisting of etoposide, anti-CD95/Fas, TNFα and staurosporine.

33. (Cancelled)

34. (Currently Amended) A pharmaceutical composition as defined in claim 31, for

inducing apoptosis in malignant cells.

35-41. (Cancelled)

42. (Previously Presented) A plasmid comprising DNA encoding a p30-Livin α

peptide as defined by SEQ ID NO: 1 or a p28-Livin β peptide as defined by SEQ ID NO:

2.

43. (Previously Presented) A viral vector comprising DNA encoding a p30-Livin α

peptide as defined by SEQ ID NO: 1 or a p28-Livin β peptide as defined by SEQ ID NO:

2.

44. (New) An isolated or recombinantly-produced livin fragment, said livin fragment

selected from one of p30-Livin α and p28-Livin β, said fragment having pro-apoptotic

activity.

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Art Unit: 1647

45. (New) A composition comprising as active ingredient at least one livin as defined

in claim 44 and a pharmaceutically-acceptable carrier.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ELLY-GERALD STOICA whose telephone number is

(571)272-9941. The examiner can normally be reached on 8:30-17:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Manjunath N. Rao can be reached on (571) 272-0939. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lorraine Spector/

Primary Examiner, Art Unit 1647